

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1875.0950001APPLICATION NO.  
10/783,563FIRST NAMED INVENTOR  
Christopher WardFILING DATE  
February 23, 2004ART UNIT  
2817**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	3,824,491	07/1974	Treadway			
	AB1	4,141,209	02/1979	Barnett <i>et al.</i>			
	AC1	4,190,808	02/1980	Fajen			
	AD1	4,211,975	07/1980	Kuroda			
	AE1	4,353,039	10/1982	Huntley			
	AF1	4,789,976	12/1998	Fujishima			
	AG1	4,818,903	04/1989	Kawano			
	AH1	4,903,329	02/1990	Marik <i>et al.</i>			
	AI1	5,006,727	04/1991	Rogosch <i>et al.</i>			

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ1	GB 2 058 505 A	04/1981	GB			N/A
	AK1	EP 0 133 618 A1	03/1985	EP			N/A
	AL1	EP 0 365 085	04/1990	EP			N/A
	AM1	EP 0 393 717 A2	10/1990	EP			N/A

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AN	1	Poole <i>et al.</i> , "A CMOS Subscriber Line Audio Processing Circuit Including Adaptive Balance," <i>IEEE International Symposium on Circuits and Systems</i> , Finland, Espoo, Volume 2 of 3, June 7-9, 1988, pp. 1931-1934.
	AO	1	Poole, S., Surace, G., Singh, B., Dyer, N., "A CMOS Subscriber Line Audio Processing Circuit Including Adaptive Balance," <i>IEEE International Symposium on Circuits and Systems</i> , Finland, Espoo, vol. 2 of 3, Jun. 7-9, 1988, pp. 1931-1934.
	AP	1	Gilbert, B., "A Low-Noise Wideband Variable-Gain Amplifier Using an Interpolated Ladder Attenuator," <i>1991 IEEE International Solid State Circuits Conference Digest of Technical Papers</i> , pp. 280, 281 and 330 (February 1991).
	AQ	1	Leung, L.H.Y. and Buchwald, A., "10-MHz 60-dB Dynamic-Range 6-dB Variable Gain Amplifier," <i>Proceedings of 1997 IEEE International Symposium on Circuits and Systems</i> , pp. 173-176 (June 9-12, 1997).
	AR	1	International Search Report from PCT Appl. No. PCT/US99/26700, filed Nov. 12, 1999, 14 pages (mailed Jan. 10, 2001).

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DATE CONSIDERED

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

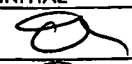














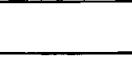


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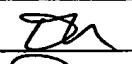


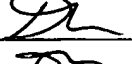


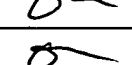


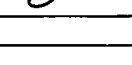


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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,031,233	07/1991	Regan			
	AB2	5,077,541	12/1991	Gilbert			
	AC2	5,200,826	04/1993	Seong			
	AD2	5,251,324	10/1993	McMullan, Jr.			
	AE2	5,311,318	05/1994	Dobrovlny			
	AF2	5,423,076	06/1995	Westergren <i>et al.</i>			
	AG2	5,428,829	06/1995	Osburn <i>et al.</i>			
	AH2	5,581,213	12/1996	Linder <i>et al.</i>			
	AI2	5,587,688	12/1996	Mulbrook			
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ2	EP 0 431 887	06/1991	Europe			N/A
	AK2	EP 0 629 040 A1	12/1994	Europe			N/A
	AL2	DE 195 06 324 C1	10/1995	Germany			No
	AM2	EP 0 767 532 A1	10/1996	Europe			N/A
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AN	2	International Preliminary Examination Report from PCT Appl. No. PCT/US99/26700, filed Nov. 12, 1999, 29 pages (mailed Mar. 8, 2001).				
	AO	2	Examination Report from European Appl. No. 99965786.9, filed Nov. 12, 1999, 4 pages (dated Jun. 21, 2002).				
	AP						
	AQ						
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	AA3	5,630,214	05/1997	Yamamoto <i>et al.</i>			
	AB3	5,715,012	02/1998	Patel <i>et al.</i>			
	AC3	5,737,035	04/1998	Rotzoll			
	AD3	5,757,220	05/1998	Murden <i>et al.</i>			
	AE3	5,828,589	10/1998	Degenhardt			
	AF3	6,696,898 B1	02/2004	Ward <i>et al.</i>			
	AG						
	AH						
	AI						


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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ3	WO 97/09786	03/1997	PCT			N/A
	AK3	WO 97/32393	09/1997	PCT			N/A
	AL3	EP 0 803 977 A2&A3	10/1997	Europe			N/A
	AM3	DE 37 23 778 A1	01/1998	Germany			No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
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<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ4	WO 98/47237 A1	10/1998	PCT			N/A
	AK						Yes No
	AL						Yes No
	AM						Yes No
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
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	AP						
	AQ						
	AR						
EXAMINER <i>MUS</i>					DATE CONSIDERED <i>4/28/05</i>		

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